

NSB Kings Bay Administrative Record

Document Index Number

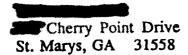


DEPARTMENT OF THE NAV

KINGS BAY, GEORGIA 31547-5000

31547-000 13.01.00.0106

December 17, 1992



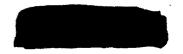


The Navy contracted ABB Environmental Services, Inc. for groundwater sampling on your property to:

- help identify the extent of a groundwater "plume", believed to originate from the Old Camden County Landfill, which contains vinyl chloride and other volatile organic compounds (VOCs), and
- assess the potential impact of the plume on private wells in Crooked River Plantation.

This sampling was conducted by ABB Environmental Services, Inc. with your consent and the results are enclosed.

Fifty-one private wells in Crooked River Plantation were sampled. An additional 21 groundwater samples were taken from five private properties using the hydrocone truck. All well and hydrocone samples were analyzed for vinyl chloride and nine other VOCs by ABB Environmental Services, Inc. in an on-site laboratory. Six of the hydrocone and 24 of the well samples were again analyzed for the same ten VOCs plus an additional 27 VOCs by CH2M Hill in their Redding, California laboratory. These 24 well samples included those suspected of being within the limits of the plume, based on the on-site analysis of the hydrocone samples. This two-step process allows for a double-check of the accuracy and consistency of the findings.



NAVAL SUBMARINE BASE KINGS BAY, GEORGIA 31547-5000

IN REPLY REFER TO:

Each table includes:

- the name of each potential contaminant,
- the sample's concentration of each contaminant in terms of micrograms per liter (number of parts per billion),
- Georgia's Maximum Concentration Limit (MCL) for each contaminant in drinking water,
- the laboratory where each sample was analyzed, either on-site or off-site, and
- comments where further clarification is necessary.

(The hydrocone results table also notes the depths where the samples were taken.)

The enclosed results represent only a "snapshot" of the contaminant concentrations as of the sampling date since groundwater continues to travel and use of private wells may accelerate the plume and influence its course. Also, as these results have been forwarded to you as quickly as possible, there has not yet been time to interpret what all the results mean collectively or to conduct a Preliminary Risk Assessment to assess the potential risk the plume may pose. For these reasons, private well owners are asked, as a continued precaution, not to use their wells until further notice. Full interpretation of these results and a Preliminary Risk Assessment are the next steps in the process.

Though these results may not provide you with all the information you might like, they represent the first step in understanding the extent of the plume. Thank you for your cooperation in allowing the sampling on your properties and for your continued patience with this process as we move toward a remedy.

If you have questions regarding these results or any aspect of the investigation, please contact Bob Steller, Public Affairs Office, NSB Kings Bay, telephone 673-4714.

Sincerely,

L.P. Scullion
CAPT, CEC, USN
Public Works Officer

Court Court

SAMPLE DEPTH: 18 FEET R. Merys. GA 31558

R. Merys. GA 31558	On-Sit	e Leb	04-81	SAMPLE DEP		
	Sample	Dup.			MCL	Commons
Compaund		34	Sample	Dup.		•
<u>smethane</u>			ND			
Bromomethone		************	МО			
Vinyl coloride	14	16	12		2	
Chloresthane			ND			
Methylane chloride			ND	38		
Acatoma			ND		•	
Carbon disulfide			ND			
1,1-Dichlaroethene			ND		7	
1,1-Dichleroethane			ND			
cis-1,2-Dichloroethene	44	57	82		70	
trans-1,2-Dichloraethene	ND	, ND	1		100	Off-site Laboratory more reliable.
Chloreform			ND		•	
1,2-Dichloroethane			ND		5	
2-Butcmone			ND			
1,1,1-Trichloroethane			ND		200	
Carbon tetrachloride			ND		5	
Bromadichloromethane			NO			
1,2-Dichloropropane			ND		5	
cis-1,3-Dichloropropene	44		ND			
hilarpethana	ND	ИО	NO		5	
Dibromochloromethane			ND		•	
1,1,2-Trichloroethane			ND		٠	
Benzene	ND	ND	ND		•	
trans-1,3-Dichloropropene			ND			
Bromolorm			ND			
2-Hemonone			ND			
4-Methyl-2-pentanone			ND			
Tetrachloroethene	ИО	ND	NO		5	
1,1,2,2-Tetrachloroethane			ND			
Toluena	ND	ND	ND		1000	
Chlorobenzene			ND		100	
Ethylbenzone	ND	ND	ND		700	
Styrene			ND		100	
Xylenes (total)	ND	ND	NO		10000	
1,3-Dichlorobenzene			ND			
1,4-Dichlorobenzene	198.0		ND		75	
1,2-Dichlorobenzene			ND		400	
NOTES						

Not Applicable
 Expressed in micrograms per liter (parts per billion)
 Georgia Department of Natural Resources, 1992, Rules for Safe Drinking Water, Environmental Protection Division
 Not Detected
 No regulatory standard developed
 Duplicate Sample
 Detected but unable to measure

МO

SAMPLE DEPTH: 29 FEET

t Morya. GA 31668	 7		SAMPLE DEP	T. 20 FC		
	On-Siz	lab	Off-Site Lab		l	
Compound	Sample	Dup.	Sample	Dup.	WCF	Comment
Chloremethane						•
Bromemethane				3		
Vinyl chloride	v				2	
Chlorauthone					. 1	
Methylane chloride						
Acetana						
Carban disulfide						
1,1-Cichloroethene					7	
1,1-Dichloroethane	120				70	
cis-1,2-Dichloreethene					100	<u> </u>
trans-1,2-Dichloroethene	13					
Chloreform						
1,2-Dichloroethane	80000000000000000000000000000000000000				5	
2-Buttonone						
1,1,1-Trichloroethane					200	
Carbon tetrachloride					5	
Browedichloremethane					<u> </u>	
1,2-Dichloropropone					5	
cis-1,3-Dichloropropene					<u> </u>	
Trichlaroethene	ND				5	
Dibromochloromethane					•	
1,1,2-Trichloroethane						
Benzene	NO				-	
trans-1,3-Dichloropropene						
Breamoform						
2-Hesianone						
4-Meshyl-2-penionone						
Totrachiaroethene	ND				5	
1,1,2,2-Tetrachloroethane					·	
Tolvene	ND				1000	
Ollarobenzene :					100	
Ethythenzene	ND				700	
Styrene					100	
Xylanes (total)	ND				10000	
1,3-Dichlorobenzene						
1,4-Dichlorobenzene					75	
1,2-Dichlorobenzene					600	
-,	100000000000000000000000000000000000000		 	Transport Contract Co		

NOIES

 Not Applicable
 Expressed in micrograms per liter (parts per billion)
 Georgia Department of Natural Resources, 1992, Rules for Safe Drinking Water, Environmental Protection Division
 Not Detected ••

ND

No regulatory standard developed
 Duplicate Sample
 Detected but unable to measure

Dup.



SAMPLE DEPTH: 40 FEET

, Marys, GA 31668	On-Site Lab		SAMPLE DEP		Ī	
^ ~eound	Sample	Dup.	Sample Dup.		MCL	Comment
emethane			ND			•
Bramamethane			ND			/
Yinyi chlorida	15		ND		2	Off-site laboratory more reliable.
Chloroethane			ND			
			ND			
Methylene chloride			93			Could be from sampling and laboratory procedures or landfill.
Acetone			7			Likely to be noturally occurring.
Carbon disulfide			ND		7	Duty to be roundary occurring.
1,1-Dichloroethene			24			
1,1-Oichloroethane		W. C.				
cis-1,2-Dichloroethene	7.7		18		70	,
trans-1,2-Dichloroethene	ND		ND		100	
Chloroform			NO			
1,2-Dichloroethane			ND	3000	5	
2-Butanone	***************************************	300	150		•	Could be from sampling and laboratory procedures or landfill.
1,1,1-Trichloroethane			ND		200	
Carbon tetrachloride	***		ND		5	
Bromodichloromethane		3.0	ND			
1,2-Dichloropropane	8.00			38	5	!
cis-1,3-Dichloropropene			ND			
chloroethene	NO	780	4		5	Off-site laboratory more reliable.
Dibromochloromethane	***	1000	ND			
1,1,2-Trichloroethone			ND			
Benzene	ND		3			Off-site laboratory more reliable.
trans-1,3-Dichloropropene		**	ND		•	
Bromaform			ND			
2-Hessanone			70			Could be from sampling and laboratory procedures or landfill.
4-Methyl-2-pentanone			34			Could be from sampling and laboratory procedures or landfill.
Tetrachloroethene	ND		ND		5	
1, 1, 2, 2-Tetrachiaraethane			ND			
Toluene	250		580		1000	
Chiorobenzene			ND		100	
Ethylbenzene	23		41		700	
Styrene			ND		100	
Xylenes (total)	64		120		10000	
1,3-Dichlorobenzene			ND			
1,4-Dichlorobenzene			NO		75	
1,2-Dichlorobenzene			ND		600	
NOIES:	1		1	1		

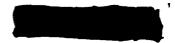
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Not Applicable
Expressed in micrograms per liter (parts per billion)

Georgia Department of Natural Resources, 1992, Rules for Safe Drinking Water, Environmental Protection Division

ND - Not Detected

 No regulatory standard developed
 Duplicate Sample
 Detected but unable to measure Dup. O



		tati i	ON-Situ Lab		}	
*	Sample	Dusp.	Sample	Dup.	MCL	Comment
Compound			NO	NO		
Chloromethana			ND	ND		į
Bromomethane			ND	ND	2	Off-site laboratory more reliable.
Vinyé chloride	0.3	-		NO		
	#### 2004		ND			
Methylane chloride			סא	NO		
Acetone			140	170	-	Cavid be from sampling and laboratory procedures at landfill.
Carbon disulfide	999		5	13	-	Likely to be naturally occurring.
1,1-Dichloroethene	•	200 (000)	ND	סא	,	
1,1-Dichlereethane			5	5		
cis-1,2-Dichloroethene	ND		ND	но	70	
trans-1,2-Dichloroethene	ND	100000	ND	ND	100	<u> </u>
Chlareform			ND	ND		
1,2-Dichloroethane			ND	HD	5	
2-Butanone	26.00		360	350		Could be from sampling and laboratory procedures for landfill.
1,1,3-Trichloraethane			ND	ND	200	
Carbon tetrachloride			ИО	92	5	
Bromodichloromethane			ND	ND	•	
1,2-Dichloropropane			ND	סא	5	
cis-1,3-Dichloropropene			ND	ND	-	
Trichleroethene	МО		ND	ND	5	
Dibromochloromethane			ND	ND		
1,1,2-Trichloroethane			ND	ND		
Benzene	ND	330	NO	ND	-	
Irans-1,3-Dichloropropene			ND	ND		
Bromolorm			ND	ND.		
2-Hexanone			19	16		Could be from sampling and laboratory procedures for landfill.
4-Methyl-2-pentanone			110	110	-	Could be from sampling and laboratory procedures for landfill.
Tetrachloroethene	מא		ND	ND	5	
1,1,2,2-Tetrachioroethane			ND	ND		
Toluene	40		68	45	1000	
Chlorebenzene			ND	ND	100	
Eshylbenzene	5.7		7	6	700	
Styrene			ИD	ND	100	
Xylanes (total)	ND		13	12	10000	Off-site laboratory more reliable.
1,3-Dichlorobenzene			ND	ND		
1,4-Dichlorobenzene			ND	ND	75	
1,2-Dichlorobenzone			ND	ND	600	

NOTES

shaded areas

Nor Applicable
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 Georgia Department of Natural Resources, 1992, Rules for Safe Drinking Water, Environmental Protection Division
 Not Detected

ND

No regulatory standard developed
 Duplicate Sample
 Detected but unable to measure

Dup.





SAMPLE DEPTH: 47 FEET

St. Maryo, GA 31558				SAMPLE DEP		
	On-Site	• Lab	Off-\$10	e Lab		
C- repund	Sample	Dup.	Sample	Dup.	WCL	Comment
methone						•
Bromomethane					· .	
Vinyl chloride	7.2				2	
Chloroethane						
Methylene chloride						
Acetone						
Carbon disulfide						
1,1-Dichloroethene					7	
1,1-Dichloroethane			1000			
cis-1,2-Dichloroethene	41				70	
trans-1,2-Dichloroethene	NO				100	•
Chloreform					•	
1,2-Dichloroethane					5	
2-Butanone					•	
1,1,1-Trichloroethane					200	
Carbon tetrachloride					5	
Bromodichloromethane						
1,2-Dichloropropano					5	·
cis-1,3-Dichloropropens					•	
hloroethene	ND				5	
Dibromochloromethone					•	
1,1,2-Trichlaroethane					•	
Benzene	ND				•	
trans-1,3-Dichlaropropene						
Bromoform					•	
2-Hexanone						
4-Meshyl-2-pentanone						
Tetrachloroethene	ND				5	
1,1,2,2-Tetrachloroethane						
Toluene	48				1000	
Chlorobenzene					100	
Elhylbenzene	5.8				700	The state of the s
Styrene					100	
Xylenes (total)	ND				10000	
1,3-Dichlorobenzene						
1,4-Dichlorabenzene					75	
1,2-Dichlorobenzene					600	
NOTES			*			

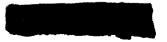
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ND

Not Applicable
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 Georgia Department of Natural Resources, 1992, Rules for Safe Drinking Water, Environmental Protection Division
 Not Detected

Not Detected
No regulatory standard developed
Duplicate Sample
Detected but unable to measure

Ου**ρ**. Ο



Cottage Court Marys. GA 31668

SAMPLE DEPTH: 62 FEET

r, Marys, GA 31558				SAMPLE DEP	T	
	On-Site Lab		OH-Site Lab		MCL	Commissions
Cempound	Semple	Dup.	Sample	Dup.		•
Chloromethane						/
Bromomethane						
Sayl chloride	ND				_2	
Chloroethane						
Methylene chloride						
Acetone	A60					
Carbon disulfide					<u>-</u>	
1,1-Dichlorpethene					7	
1,1-Dichleroethane					<u></u>	
cls-1,2-Dichloroethene	ND				70	
trans-1,2-Dichlaroethene	NO				100	\
Chloreform					·	
1,2-Dichloroethane					5	
2-Butanone						
1,1,1-Trichloraethane	100				200	
Carbon tetrachloride					5	
Bromodichloromethane	100					
1,2-Dichloropropone					5	
cis-1,3-Dichloropropens						
Trichloroethene	ND				5	
Dibromochloromethane						
1,1,2-Trichloroethane						
	NO					
Benzene						
trans-1,3-Dichloropropene						
Bromoform						
2-Hexanone						
4-Methyl-2-pentonone					5	
Tetrachloroethene	ND					
1,1,2,2-Tetrachlaroethane					1000	
Taluene	ND				1000	
Chlorobenzene					700	
Ethylbenzene	NO				700	
Styrene					100	
Xylenes (total)	ND	-			10000	
1,3-Dichlorobenzene					<u> </u>	
1,4-Dichlorobenzene		-			75	
1,2-Dichlorobenzene NOTES:				1	600	

NOIEZ:

shaded areas

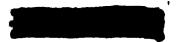
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 Georgia Department of Natural Resources, 1992, Rules for Safe Drinking Water, Environmental Protection Division
 Not Detected ••

ND

No regulatory standard developed
 Duplicate Sample

Dup.

Duplicate Sample
 Detected but unable to measure

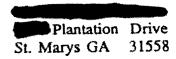




NAVAL SUBMARINE BASE KINGS BAY, GEORGIA 31547-5000

IN REPLY REFER TO:

December 17, 1992



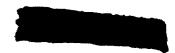


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- help identify the extent of a groundwater "plume", believed to originate from the Old Camden County Landfill, which contains vinyl chloride and other volatile organic compounds (VOCs), and
- assess the potential impact of the plume on private wells in Crooked River Plantation.

This sampling was conducted by ABB Environmental Services, Inc. with your consent and the results are enclosed.

Fifty-one private wells in Crooked River Plantation were sampled. An additional 21 groundwater samples were taken from five private properties using the hydrocone truck. All well and hydrocone samples were analyzed for vinyl chloride and nine other VOCs by ABB Environmental Services, Inc. in an on-site laboratory. Six of the hydrocone and 24 of the well samples were again analyzed for the same ten VOCs plus an additional 27 VOCs by CH2M Hill in their Redding, California laboratory. These 24 well samples included those suspected of being within the limits of the plume, based on the on-site analysis of the hydrocone samples. This two-step process allows for a double-check of the accuracy and consistency of the findings.

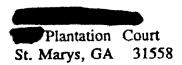




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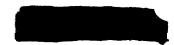
Dear Mr. King:

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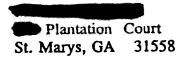
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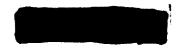


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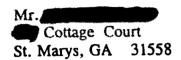
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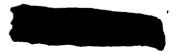


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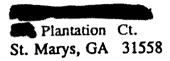




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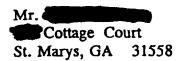


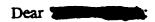


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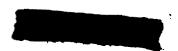


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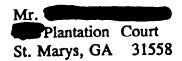




NAVAL SUBMARINE BASE KINGS BAY, GEORGIA 31547-5000

IN REPLY REFER TO:

December 17, 1992





The Navy contracted ABB Environmental Services, Inc. for groundwater sampling on your property to:

- help identify the extent of a groundwater "plume", believed to originate from the Old Camden County Landfill, which contains vinyl chloride and other volatile organic compounds (VOCs), and
- assess the potential impact of the plume on private wells in Crooked River Plantation.

This sampling was conducted by ABB Environmental Services, Inc. with your consent and the results are enclosed.

Fifty-one private wells in Crooked River Plantation were sampled. An additional 21 groundwater samples were taken from five private properties using the hydrocone truck. All well and hydrocone samples were analyzed for vinyl chloride and nine other VOCs by ABB Environmental Services, Inc. in an on-site laboratory. Six of the hydrocone and 24 of the well samples were again analyzed for the same ten VOCs plus an additional 27 VOCs by CH2M Hill in their Redding, California laboratory. These 24 well samples included those suspected of being within the limits of the plume, based on the on-site analysis of the hydrocone samples. This two-step process allows for a double-check of the accuracy and consistency of the findings.

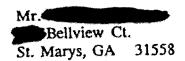




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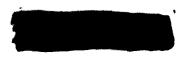
Dear Mr. Burns:

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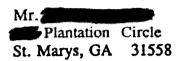




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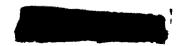


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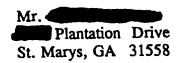
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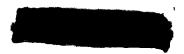


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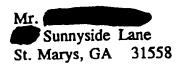




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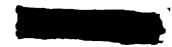


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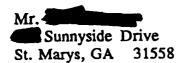




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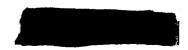
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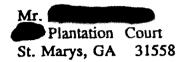




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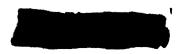
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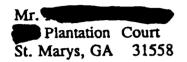


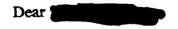


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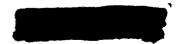


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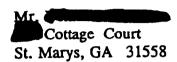


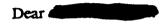


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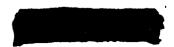


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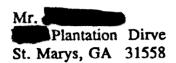


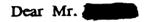


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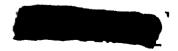


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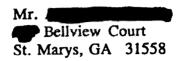




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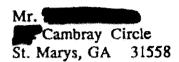




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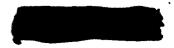


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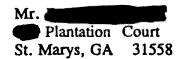




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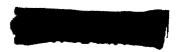


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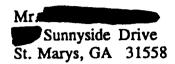


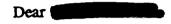


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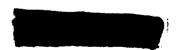


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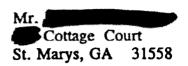




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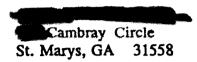




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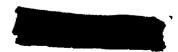


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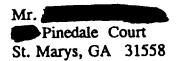


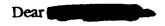


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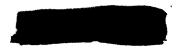


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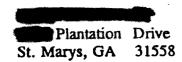




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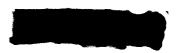


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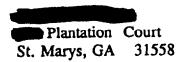




NAVAL SUBMARINE BASE KINGS BAY, GEORGIA 31547-5000

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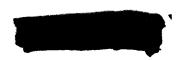


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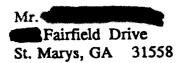




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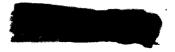


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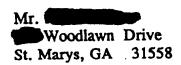


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As you will see from the enclosed results, the samples were analyzed for vinyl chloride and other VOCs only, as they were the primary contaminants common to the plume. These results do not provide a complete analysis of groundwater quality and would not include measures of other potential contaminants such as pesticides or fertilizers from other sources. The well testing results appear in a table. The five homeowners who approved hydrocone testing on their properties are receiving an additional table outlining those results.

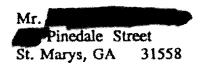
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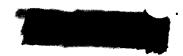


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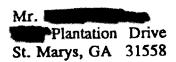




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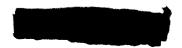


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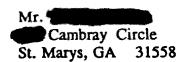




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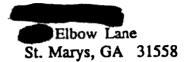
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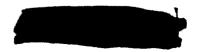


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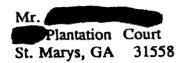


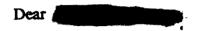


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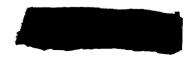


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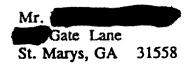




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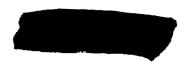


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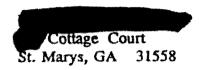


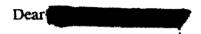


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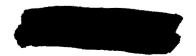


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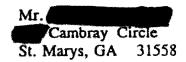


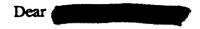


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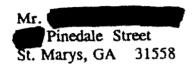




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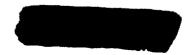
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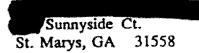




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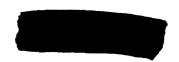
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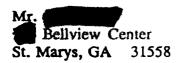




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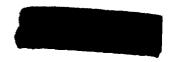


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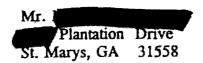




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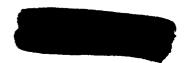


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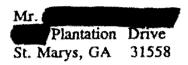




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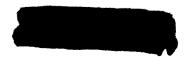


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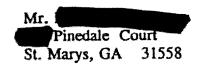


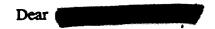


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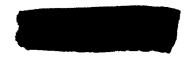


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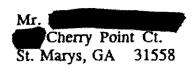




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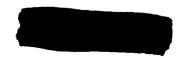


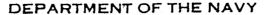
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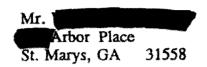




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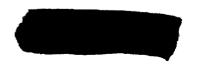
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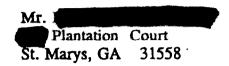




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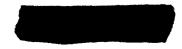
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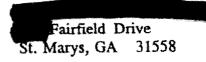




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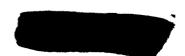
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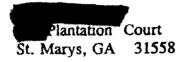




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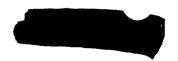
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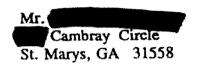
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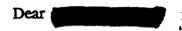


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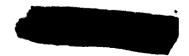


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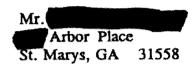


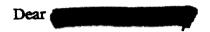


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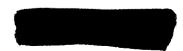


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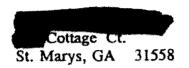


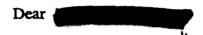


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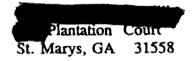




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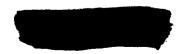
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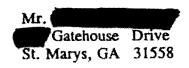




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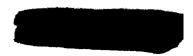


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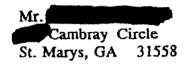




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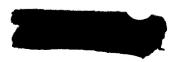


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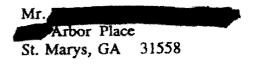




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